

**LOW-DENSITY NONWOVEN FABRIC AND PRODUCTION METHOD AND
INSTALLATION THEREFOR AND USES**

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ABSTRACT OF THE DISCLOSURE

10 The invention concerns an installation for nonwoven production,
characterized in that it comprises a spunbonded web plant whereof the die is
inclined at an angle of 10 to 60° and preferably of 20 to 50° relative to the
displacement direction of a conveyor and preferably two spunbonded web
plants whereof the dies have opposite inclinations, said conveyor whereon
filaments are deposited from the die(s) in the form of a web, a station for
compressing the thus formed web into a web compressed perpendicular to its
15 plane, optionally a station for calendering the compressed web, followed by a
station for consolidating by pressurized water jet spray the compressed and
optionally calendered web with a jet spraying machine comprising a metal
fabric whereof the wires have a diameter between 0.10 and 0.35 mm and
which has more than 40 wires per cm and preferably 10 to 30 wires per cm
20 both in warp direction and in weft direction or with a water jet spraying
machine including a sleeve with perforations of 50 to 600 microns and having
20 to 200 perforations per cm².